

Identification of Achievable Performance Standards

Source Category: Fugitive Emissions of VOCs from O/G Production and Processing Facilities

Rule/Measure	Rule/Measure				
	RACT Determination of Fugitive Emissions of VOCs from Oil and Gas Production and Processing Facilities, Refineries, Chemical Plants, and Pipeline Transfer Stations. 12/8/93.	SCAQMD Rule 1173. Fugitive Emissions of Volatile Organic Compounds. 5/13/94.	BAAQMD Regulation 8-Organic Compounds, Rule 37-Natural Gas and Crude Oil production Facilities. 10/17/90.	SBCAPCD Rule 331. Fugitive Emissions Inspection and Maintenance. 12/10/91. (Note: Similar to or less stringent than RACT except as noted)	
Exemptions	<u>Visual Inspection Exemption:</u> - PRV, P & Cp equipped with closed-vent system capable of capturing and transporting any leak to vapor control system.				

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	<u>Inspection Exemption:</u> - Components exclusively handling commercial natural gas. - Components buried below ground. - Components, except those at gas processing plants, exclusively handling fluids with a VOC concentration of 10% by wt. or less, as determined by appropriate test methods; or components exclusively handling liquid, if the wt% evaporated is 10% or less at 150 °C (302 °F), as determined by appropriate test methods. - **Components at oil and gas production facilities, or pipeline transfer stations, handling liquid of less than or equal to 20° API gravity after point of primary separation.				

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	<u>Inspection Exemption con't.:</u> - **Components at oil and gas production facilities, or pipeline transfer stations, handling liquid between 20 and 30° API gravity which are located either: 1)downstream of a wellhead equipped with a casing vapor recovery system, provided that the vapor recovery is at a pressure of less than 10 psig; or 2)after the point of primary separation of oil and gas, provided the separation vessel is equipped with a vapor recovery system and is operated at a pressure less than 25 psig.				

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	<u>Inspection Exemption con't.:</u> (**Note: (1)Components located at <u>offshore oil platforms</u> shall be visually inspected on a quarterly basis. If leak detected, measure according to Method 21. Quarterly visual inspection may be changed to annual, except P, Cp, PRV, & PRSB, if no liquid leaks and no major gas leaks > 0.5% of total components inspected per inspection period for 12 consecutive months. Leaks from PRSB not included in total count of leaking components. (2)Components located at <u>onshore facilities</u> shall either be subject to (1) or that any leak, from components not subject to an inspection program that are detected by the District, may constitute a violation.)				

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	<u>Rule Exemption:</u> - one-half inch and smaller fittings which have been demonstrated to the APCO to be leak-free based on an initial inspection in accordance with Method 21.	<u>Rule Exemption:</u> (Similar to what RACT exempts for inspection only.)	<u>Rule Exemption:</u> - natural gas distribution, transportation and storage facilities, including underground storage and associated processing facilities. Written petition must be submitted to APCO. - natural gas streams which contain more than or equal to 90% methane by volume. Written petition must be submitted to APCO. - liquid streams with a water content in excess of 90 % by volume. Written petition must be submitted to APCO.		

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Applicability	Components including but not limited to valves (V), flanges (F), fittings (C), pumps (P), compressors (Cp), pressure relief devices (PRV), diaphragms, hatches, sight-glasses, and meters at refineries, chemical plants, oil & gas processing plants including offshore platforms, and pipeline transfer stations.	Valves, fittings, pumps, compressors, pressure relief devices, diaphragms, hatches, sight-glasses, and meters at refineries, chemical plants, oil and gas production fields, natural gas processing plants, and pipeline transfer stations.	Valves, flanges, chokes, stuffing boxes, pumps, compressors, pressure relief valves, threaded connections, hatches, sight glasses, fittings liquid pools, open vessels, and spills at natural gas and crude oil production facilities.	Components in liquid or gaseous hydrocarbon service at refineries, chemical plants, oil and gas production fields, oil and gas processing plants, and pipeline transfer stations.	
Comments	RACT has the most comprehensive exemptions and applicability category.				

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	<u>Comp. classifications:</u> - Major: ≥ 4 " V, ≥ 5 -hp P, any Cp, and ≥ 4 " PRV. - Minor: not a major. - Critical: require unit shutdown if component taken out of service. - Inaccessible: $>15'$ above ground when access required from ground; $>6'$ away from platform when access required from platform. - Unsafe: as defined by OSHA standards or in provisions for worker safety found in 29 CFR 1910.				

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	<u>Definitions:</u> - Unmanned Facility: remote facility which has no permanent sited personnel and is greater than 5 miles from the closest manned facility.				

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